

LIME SCALE REMOVER

National Fire Protection Association (NFPA)	Fire Hazard		Hazardous Material Information System (HMIS)	Health	3
	Health	0		Fire Hazard	0
		1		Reactivity	1
	Specific Hazard				
Protective Clothing				Emergency Overview	Clear. Colorless. Liquid. See Section 9. DANGER. CORROSIVE. CAUSES EYE AND SKIN BURNS. HARMFUL OR FATAL IF SWALLOWED.

Section 1. Chemical Product and Company Identification					
Product Name			LIME SCALE REMOVER		
Product Use			Industrial/Institutional: Delimer. This product is intended to be diluted prior to use.		
MSDS#			126487001		
U.S. Headquarters			Canadian Headquarters		
JohnsonDiversey, Inc. 8310 16th Street Sturtevant, Wisconsin 53177-0902 Phone: (888) 352-2249 MSDS Internet Address: www.johnsondiversey.com			JohnsonDiversey - Canada, Inc. 2401 Bristol Circle Oakville, Ontario L6H 6P1 Phone: 1-800-668-3131		
			Code		
			48083		
			PMS#		
			447716		
			Validation Date		
			2/7/2005		
			Print Date		
			2/7/2005		
			Supersedes		
			No Previous Validation		
			In Case of Emergency		
			(800) 851-7145		

Section 2. Composition and Information on Ingredients				
Ingredients	CAS #	% by Weight	Exposure Limits	LC50/LD50
Water	7732-18-5	30-60	Not available.	Not applicable.
Phosphoric Acid	7664-38-2	30-60	TWA: 1 STEL: 3 (mg/m ³) from OSHA (PEL) [United States] TWA: 1 STEL: 3 (mg/m ³) from ACGIH (TLV) [United States]	ORAL (LD50): Acute: 1530 mg/kg [Rat]. DERMAL (LD50): Acute: 2740 mg/kg [Rabbit].

Section 3. Hazards Identification	
Routes of Entry	Inhalation. Skin contact. Eye contact.
Potential Acute Health Effects	
	<i>Eyes</i> Corrosive. May cause permanent damage including blindness.
	<i>Skin</i> Corrosive. May cause permanent damage.
	<i>Inhalation</i> May cause irritation and corrosive effects to nose, throat and respiratory tract.
	<i>Ingestion</i> Corrosive. May cause burns to mouth, throat and stomach.
Medical Conditions Aggravated by Overexposure:	Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects.
See Toxicological Information (section 11)	

Section 4. First Aid Measures

Eye Contact	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.
Skin Contact	Flush immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Inhalation	If breathing is difficult: Remove to fresh air. Get medical attention immediately.
Ingestion	Do not induce vomiting! Immediately drink 1-2 glasses of water or milk. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flammability of the Product	None known.
Flash Points	Not available.
Products of Combustion	None known.
Fire Fighting Media and Instructions	Extinguish with water spray or carbon dioxide, dry chemical powder or appropriate foam. Normal fire fighting procedure may be used.
Protective Clothing (Fire)	Put on appropriate personal protective equipment (see Section 8).
Special Remarks on Fire and Explosion Hazards	Corrosive material (See sections 8 and 10).

Section 6. Accidental Release Measures

Personal Precautions	Put on appropriate personal protective equipment (see Section 8).
Environmental Precautions and Clean-up Methods	In the event of major spillage: Use appropriate containment to avoid environmental contamination. Sweep or scrape up material. Place in suitable clean, dry containers for disposal by approved methods. Use a water rinse for final clean-up.

Section 7. Handling and Storage

Handling	DANGER: CORROSIVE. CONCENTRATE CAUSES EYE AND SKIN BURNS. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Wear chemical splash-proof goggles, rubber gloves and protective footwear. HARMFUL OR FATAL IF SWALLOWED. Do not taste or swallow. Avoid breathing vapor. Keep container closed. Use only with adequate ventilation. Contains Phosphoric acid. NEVER USE OR MIX WITH ACIDS, AMMONIA OR ANY OTHER CHEMICAL. Can react to release hazardous vapors. If this occurs, leave area immediately. Ventilate if possible.
Storage	Store in a dry, cool and well-ventilated area. Protect from freezing. Keep container tightly closed. KEEP OUT OF REACH OF CHILDREN.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.
Personal Protection	
<i>Eyes</i>	Chemical splash goggles.
<i>Hands</i>	Chemical resistant gloves. Includes: Neoprene gloves.
<i>Respiratory</i>	If mists/vapors are not adequately controlled by ventilation, use appropriate respiratory protection to avoid over exposure. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
<i>Feet</i>	Protective footwear.
<i>Body</i>	If major exposure is possible, wear suitable protective clothing and footwear.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.
Odor	Acrid.
Color	Clear Colorless.
pH	0.8 [Acidic.]
Specific Gravity	1.26
Boiling/Condensation Point	100°C (212°F)
Melting/Freezing Point	0°C (32°F)
Solubility in water	Complete.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	None known.
Incompatibility with Various Substances	Reactive with oxidizing agents, alkalis. May release dangerous gases (chlorine). Ventilate if possible.
Hazardous Decomposition Products	When exposed to fire: Produces normal products of combustion. Toxic decomposition products include: Oxides of phosphorous.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Acute toxicity	Corrosive.
Effects of Chronic Exposure	None known.
Other Toxic Effects	Not available.

Section 12. Ecological Information

Not available.

Section 13. Disposal Considerations

Waste Information	Undiluted product is regulated under environmental and transportation laws as a corrosive waste. Dispose of according to all federal, state and local regulations.
-------------------	--

Section 14. Transport Information

DOT Classification	
DOT Proper Shipping Name	Please refer to the Bill of Lading/receiving documents for up to date shipping information.
TDG Classification	
TDG Proper Shipping Name	Please refer to the Bill of Lading/receiving documents for up to date shipping information.
TDG Class	

Section 15. Regulatory Information

Reporting in this section is based on ingredients disclosed in Section 2

US Regulations

Federal SARA 302/304/311/312 hazardous chemicals: Phosphoric Acid
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Phosphoric Acid
 Clean Water Act (CWA) 311: Phosphoric Acid
 CERCLA: Hazardous substances.: Phosphoric Acid

State New Jersey spill list: Phosphoric Acid
 New Jersey: Phosphoric Acid
 Massachusetts spill list: Phosphoric Acid
 Massachusetts RTK: Phosphoric Acid
 Pennsylvania RTK: Phosphoric Acid

This product is not subject to the reporting requirements under California's Proposition 65.

Registered Product Information Not applicable.

Canadian Regulations

Canadian NPRI Canadian NPRI: Phosphoric Acid.

WHMIS Classification CLASS E: Corrosive liquid.

WHMIS Icon



Registered Product Information Not applicable.

Chemical Inventory Status All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Section 16. Other Information

Other Special Considerations Not available.

Version 3

Notice to Reader

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.